SUMTER COUNTY BOARD OF COMMISSIONERS
EXECUTIVE SUMMARY

SUBJECT: FY13 Highway Safety Program (Staff recommends approval).

REQUESTED ACTION: **Approval**

☐ Work Session (Report Only)   **DATE OF MEETING:**   10/23/2102
☒ Regular Meeting   ☐ Special Meeting

CONTRACT: ☐ N/A   Vendor/Entity: Volkert, Inc.
Effective Date: 10/23/2012   Termination Date: 9/30/2013
Managing Division / Dept: Public Works Division/Engineering

BUDGET IMPACT: $50,000
☒ Annual   **FUNDING SOURCE:**   CTT
☐ Capital   **EXPENDITURE ACCOUNT:**   103-340-541-3100
☐ N/A

HISTORY/FACTS/ISSUES:

In FY12, the Sumter County Highway Safety Program was initiated using Volkert, Inc. one of our 8 CCNA consultants under contract to Public Works. During the first year we formed and met with the Traffic Safety Work Group, identified and prioritized major road sections and intersections with high accident rates, recommended selected intersections for FDOT's Safety Funds, submitted candidate projects for the MPO needs list, and developed other safety projects lists.

In FY13, the Safety Program will use Volkert, Inc. again and focus on:

1. High Risk Rural Roads (HRRR) and candidate funding from MAP-21.
2. Meeting twice with the Traffic Safety Work Group (TSWG).
3. Develop a recommended program of Safety projects based on #1 and #2 above, to include preliminary design and cost estimates, and funding eligibility.
4. Develop a process for identifying and prioritizing safety spot improvements, such as clear zone issues, signage and pavement markings, shoulder drop offs, guardrail requirements, etc.

The funds are budgeted for this program in CTT. Staff recommends approval.

VOLKERT

October 16, 2012

Mr. Scott B. Cottrell, P.E.
Director, Public Works, Sumter County
319 E. Anderson Avenue
Bushnell, Florida 33513

Re: Proposal for FY 2013 Sumter County Highway Safety Program

Dear Mr. Cottrell:

Please find enclosed our proposal in response to your request to provide professional services for the Sumter County Highway Safety Program during FY 2013.
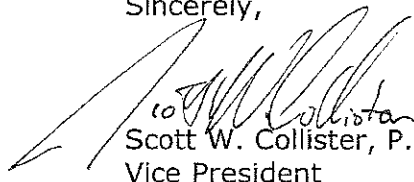
Based upon the work we have completed we are recommending the following tasks and fund allocations for your approval:

Task 1:	HRRR Candidate Safety Project Federal Funding	$31,200
Task 2:	Traffic Safety Work Group Meetings	$6,000
Task 3:	Safety Project Program	$11,800
Task 4:	Spot Improvement Process *	$1,000
		$50,000

* Please note that if Task 1 can be accomplished for less than the funds budgeted any available funds will be used for Task 4.

Please contact me at scott.collister@volkert.com or (813)875-1365 if you have any questions or comments.

Sincerely,

Scott W. Collister, P.E., CPCM
Vice President

cc: David Gwynn, P.E.
    Gene Quinn, P.E.
    Brian Kanely, P.E.

Sumter County FY 2013 Highway Safety Program
Scope of Services

Overview

The Sumter County FY 2013 Highway Safety Program will include four primary tasks:

1. Determine eligibility of HRRR Candidate Safety Projects (Attachment A) or other Sumter County projects for federal funding by FDOT District Five under the provisions of Moving Ahead for Progress in the 21st Century (MAP 21).
2. Conduct two (2) Traffic Safety Work Group meetings, one in November 2012 and one in May 2013.
3. In conjunction with the efforts under Tasks 1 and 2 develop a recommended program of Sumter County Safety projects based on documented traffic crashes, roadway crash rates and observed roadway conditions and hazards. Project information will include preliminary design and construction cost estimates and a determination of whether or not projects are eligible for federal funding
4. Develop a process to identify and prioritize Sumter County road system safety spot improvements that will correct/improve safety at spot locations for roadway users. Spot improvements may include the following: removal of vegetation or trees in the clear zone, additional/revised signage; pavement markings; guardrail improvements; or pedestrian handrail for drop-off protection.

Task 1: HRRR Candidate Safety Project Federal Funding

Objective: Coordinate with Mr. Tony Nosse and other FDOT staff as required to determine the eligibility of identified HRRR Candidate projects for federal funding under MAP 21. Coordination will include determining project eligibility, availability of funds, project approval process, candidate project documentation, project schedules, etc. The deliverables for Sumter County will include (1) a determination if these projects can be financed with federal funds provide by the FDOT and (2) candidate project documentation reports if funding is available.

The new federal transportation authorization for federal FY 2013-2014 known as MAP 21 was signed into law on July 6, 2012. Funding for the Highway Safety Improvement Program (HSIP) is a key component of the legislation.
The Florida DOT will build upon their statewide Strategic Highway Safety Plan (SHSP) that lays out strategies to address key safety problems by completing regular plan updates. The Florida DOT is also required to

- Set targets for the number of serious injuries and fatalities and the number per vehicle mile of travel. If Florida fails to make progress toward safety targets it will be required to devote a portion of its formula obligation

1

limitation to the safety program and submit an annual implementation plan on progress to meet performance targets.

- Obligate funds for High Risk Rural Roads (HRRR) projects if the fatality rate on these roads increases over a 2-year period. This is a new approach because MAP-21 eliminates the requirement for the Florida DOT to set aside funds for HRRR Projects.

Task 2: Traffic Safety Work Group Meetings

Objective: Volkert will lead two (2) Traffic Safety Working Group meetings in November 2012 and May 2013. Volkert will prepare the meeting agenda, meeting notifications, mail outs, minutes and any other activities required to lead effective meetings.

The first Sumter County Traffic Safety Work Group (TSWG) meeting was held in January, 2012. The focus of the TSWG in 2013 is to identify and coordinate transportation infrastructure solutions for highway safety issues in Sumter County by holding effective meetings with County, City and FDOT staff.

Task 3: Safety Project Program

Objective: Volkert will integrate the outcome of Task 1 and Task 2 and input from PWD into a County Safety Project Program that would include project descriptions, cost estimates, funding sources, and schedules.

The intent of developing a Sumter County Safety Project Program is to define and recommend priorities for highway projects that will improve the safety of all highway users of Sumter County roads and an execution strategy for each project. Program development activities will include

1. Reviewing the candidate project work completed to date with Sumter County and Lake Sumter MPO staff.
2. Identifying any new candidate projects based on traffic crash data obtained from the Lake-Sumter MPO and any new guidance issued by the FDOT.
3. Performing field reviews of Sumter County roads to identify hazards and other roadway conditions that should be addressed to improve highway safety. Safety improvements may include but are not limited to adding paved shoulders, adding guardrail, removing trees and other roadside hazards, improving signage and combinations of these measures.
4. Developing project priorities based on traffic crash data and observations of safety issues.

Completion of this task will depend on FDOT requirements for submission of candidate projects for highway safety funding and the Sumter County annual budget preparation schedule.

2

Task 4: Spot Improvement Process

Objective: Develop a process to identify and prioritize Sumter County road system safety spot improvements that will correct/improve safety at spot locations for roadway users. Spot improvements may include the following: removal of vegetation or trees in the clear zone, additional/revised signage; pavement markings; guardrail improvements; or pedestrian handrail for drop-off protection.

This task will include reviewing existing methodology that Sumter County
is using to identify roadway maintenance/improvement needs at specific locations
that can improve the safety of Sumter County roads for all users.

Cost Summary

Volkert will ensure that all Sumter County funds made available for this contract renewal are maximized. Based upon our recent work for Sumter County we have budgeted these amounts for Tasks 1-4.

Task 1: HRRR Candidate Safety Project Federal Funding	$31,200
Task 2: Traffic Safety Work Group Meetings	$6,000
Task 3: Safety Project Program	$11,800
Task 4: Spot Improvement Process *	$1,000
	$50,000

* If Task 1 can be accomplished for less than the funds budgeted any available funds will be used for Task 4.

Attachment A:
Sumter County High Risk Rural Roads (HRRR)
Roadway Segment Crash Rates with
Fatal and Incapacitating Crashes for 2008 – 2010

Roadway Segment Number	1	2	3	4	5
Roadway Segment Name	West County Road 478	West County Road 476	County Road 575	West County Road 48	North County Road 475
From	US 301 (SR 35)	Hernando County Line	West County Road 476	Citrus County Line	County Road 466
To	SR 471	US 301 (SR 35)	West County Road 48	County Road 616	Marion County Line
Length in Miles	4.932	9.065	6.310	7.480	2.067
Federal Functional Classification	Rural Major Collector (RMJC)	Rural Major Collector (RMJC)	Rural Minor Collector (RMIC)	Rural Major Collector (RMJC)	Rural Minor Collector (RMIC)
Federal System	Surface Transp. Program (STP)	Surface Transp. Program (STP)	Federal Aid None (FA-NONE)	Surface Transp. Program (STP)	Federal Aid None (FA-NONE)
Traffic Volume in Vehicles/Day	2,351 v/d	3,647 v/d	833 v/d	4,209 v/d	4,285 v/d
Number of Fatal Crashes	1	3	1	2	1
Number of Incapacitating Crashes	1	10	3	5	0
Total Number of Crashes	2	13	4	7	1
Average Number of Crashes/Year	0.67	4.33	1.33	2.33	0.33
Crash Rate	0.158	0.359	0.693	0.199	0.102
Crash Rate Meets HRRR Minimum (0.15)?	**Yes**	**Yes**	**Yes**	**Yes**	No